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trunks he inclines to the opinion that these will yet be found attached, and that some forms, at least of Sigillaria, must have been coniferous. In this connection he discredits the statements of Goldenberg relative to the fruits of Sigillaria, but seems to be unacquainted with the important paper of Zeiller, which has certainly done more to settle the question than any other discovery.

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GEOGRAPHY AND TRAVEL.¹

AMERICA.—THE RIO DOCE.—The Rio Doce, Brazil, an account of the exploration of which was recently read by Mr. W. J. Steains before the Royal Geographical Society, appears small when compared with the mighty rivers around it, yet has a length of rather over four hundred and fifty miles. Its head-waters are several streams rising in the Serra da Mantiqueira, the loftiest peak of which, Itatiaiaassu, 10,040 feet, is the highest known elevation in Brazil. The various streams which unite to form the Rio Doce flow in a more or less northerly direction from the northern slope of the Serra and unite into a main river which, after receiving several tributaries, enters the ocean at about 19° 40' south latitude. The Serra da Mantiqueira has a general northeast direction, but the irregular line of the Brazilian coast-range is continued northward by the Serra dos Amores, which is cut through by the Rio Doce in its descent from the interior table-lands. The part of the Rio Doce basin lying east of the last named Serra is a densely wooded lowland, sloping upward to a height of about nine hundred feet, and resolving itself near the coast into a stretch of alluvial ground, studded with small lakes communicating by long winding streams called "valloes." The largest of these, the Lago Juparana, is eighteen miles long, and is connected with the Doce by a tortuous channel of about seven miles. It is fed by the Rio San José, a still unexplored stream, flowing through districts inhabited by wild Botocudos. The forests around it abound in the Jaearandá (*Bignonia cœrulea*), or rosewood tree. The Rio Doce is navigable as far as Porto de Sonza, one hundred and twenty miles from its mouth. Here occur the rapids which mark the crossing of the Serra dos Amores, and falls and rapids are abundant above this. There are, as yet, only three settlements—Linhares, Guandu and Figueira—on the banks of the Doce, though for the greater part of its course grand virgin forests, filled with a hundred varieties of

¹ Edited by W. N. Lockington, Philadelphia, Pa.